

SEQUENCE LISTING

<110> MUNROE, Donald G.
KAMBOJ, Rajender
PETERS, Diana
KOOSHESH, Fatemeh
VYAS, Tejal B.
GUPTA, Ashwani K.

<120> IDENTIFICATION OF LYSOLIPID RECEPTORS INVOLVED IN
INFLAMMATORY RESPONSE

<130> 8074-8021

<140> 09/222,995

<141> 1998-12-30

<150> 60/109,885

<151> 1998-11-25

<150> 60/080,610

<151> 1998-04-03

<150> 60/070,185

<151> 1997-12-30

<160> 25

<170> PatentIn Ver. 2.1

<210> 1

<211> 35

<212> DNA

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<220>

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primer

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<213> Artificial Sequence

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primer

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<223> Description of Artificial Sequence: synthetic
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22

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<210> 6

<211> 26

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<223> Description of Artificial Sequence: synthetic
primer

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<223> Description of Artificial Sequence: synthetic
primer

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic
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<210> 9

<211> 37

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic
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37

<210> 10

<211> 32
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<223> Description of Artificial Sequence: synthetic
primer

<400> 10

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<210> 11

<211> 33

<212> DNA

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<223> Description of Artificial Sequence: synthetic
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<211> 33

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic
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<211> 445

<212> DNA

<213> Homo sapiens

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ggagacgacc tcccgccagg tggcctcggc attcatcgtc atcctctgtt gcgccattgt 180
ggtggaaaac cttctggtgc tcattgcggt ggcccgaaac agcaagttcc actcggcaat 240

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 gagcgccacg tggccattgc aaagg 445

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 ggtggaaaac cttctggtgc tcattgcggt ggcccgaaac agcaagttcc actcggaat 240
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 ggac 364

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 cggcaatgta cctgtttctg ggcaacctgg ccgcctccga tctactggca ggcgtggctt 300
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 <213> Homo sapiens

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gag tac ctg aac ccc aac aag gtc cag gaa cac tat aat tat acc aag 103
 Glu Tyr Leu Asn Pro Asn Lys Val Gln Glu His Tyr Asn Tyr Thr Lys
 10 15 20

gag acg ctg gaa acg cag gag acg acc tcc cgc cag gtg gcc tcg gcc 151
 Glu Thr Leu Glu Thr Gln Glu Thr Thr Ser Arg Gln Val Ala Ser Ala
 25 30 35

ttc atc gtc atc ctc tgt tgc gcc att gtg gtg gaa aac ctt ctg gtg 199
 Phe Ile Val Ile Leu Cys Cys Ala Ile Val Val Glu Asn Leu Leu Val
 40 45 50

ctc att gcg gtg gcc cga aac agc aag ttc cac tcg gca atg tac ctg 247
 Leu Ile Ala Val Ala Arg Asn Ser Lys Phe His Ser Ala Met Tyr Leu
 55 60 65 70

ttt ctg ggc aac ctg gcc gcc tcc gat cta ctg gca ggc gtg gcc ttc 295
 Phe Leu Gly Asn Leu Ala Ala Ser Asp Leu Leu Ala Gly Val Ala Phe
 75 80 85

gta gcc aat acc ttg ctc tct ggc tct gtc acg ctg agg ctg acg cct 343
 Val Ala Asn Thr Leu Leu Ser Gly Ser Val Thr Leu Arg Leu Thr Pro
 90 95 100

gtg cag tgg ttt gcc cgg gag ggc tct gcc ttc atc acg ctc tcg gcc 391
 Val Gln Trp Phe Ala Arg Glu Gly Ser Ala Phe Ile Thr Leu Ser Ala
 105 110 115

tct gtc ttc agc ctc ctg gcc atc gcc att gag cgc cac gtg gcc att 439
 Ser Val Phe Ser Leu Leu Ala Ile Ala Ile Glu Arg His Val Ala Ile
 120 125 130

gcc aag gtc aag ctg tat ggc agc gac aag agc tgc cgc atg ctt ctg 487
 Ala Lys Val Lys Leu Tyr Gly Ser Asp Lys Ser Cys Arg Met Leu Leu
 135 140 145 150

ctc atc ggg gcc tcg tgg ctc atc tcg ctg gtc ctc ggt ggc ctg ccc 535
 Leu Ile Gly Ala Ser Trp Leu Ile Ser Leu Val Leu Gly Gly Leu Pro
 155 160 165

atc ctt ggc tgg aac tgc ctg ggc cac ctc gag gcc tgc tcc act gtc 583
 Ile Leu Gly Trp Asn Cys Leu Gly His Leu Glu Ala Cys Ser Thr Val
 170 175 180

ctg cct ctc tac gcc aag cat tat gtg ctg tgc gtg gtg acc atc ttc 631
 Leu Pro Leu Tyr Ala Lys His Tyr Val Leu Cys Val Val Thr Ile Phe

185

190

195

tcc atc atc ctg ttg gcc atc gtg gcc ctg tac gtg cgc atc tac tgc Ser Ile Ile Leu Leu Ala Ile Val Ala Leu Tyr Val Arg Ile Tyr Cys 200 205 210	679
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ctg ctc aag acg gtc acc atc gtg cta ggc gtc ttt atc gtc tgc tgg Leu Leu Lys Thr Val Thr Ile Val Leu Gly Val Phe Ile Val Cys Trp 235 240 245	775
ctg ccc gcc ttc agc atc ctc ctt ctg gac tat gcc tgt ccc gtc cac Leu Pro Ala Phe Ser Ile Leu Leu Leu Asp Tyr Ala Cys Pro Val His 250 255 260	823
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ggg gtg caa gga cgg agg cgg ggc ggg acc ccg ggc cac cac ctc ctg Gly Val Gln Gly Arg Arg Arg Gly Gly Thr Pro Gly His His Leu Leu 315 320 325	1015
cca ctc cgc agc tcc agc tcc ctg gag agg ggc atg cac atg ccc acg Pro Leu Arg Ser Ser Ser Ser Leu Glu Arg Gly Met His Met Pro Thr 330 335 340	1063
tca ccc acg ttt ctg gag ggc aac acg gtg gtc tgaggggtggg ggtggaccaa Ser Pro Thr Phe Leu Glu Gly Asn Thr Val Val 345 350	1116
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<210> 17

<211> 353

<212> PRT

<213> Homo sapiens

<400> 17

Met Gly Ser Leu Tyr Ser Glu Tyr Leu Asn Pro Asn Lys Val Gln Glu
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His Tyr Asn Tyr Thr Lys Glu Thr Leu Glu Thr Gln Glu Thr Thr Ser
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Arg Gln Val Ala Ser Ala Phe Ile Val Ile Leu Cys Cys Ala Ile Val
35 40 45

Val Glu Asn Leu Leu Val Leu Ile Ala Val Ala Arg Asn Ser Lys Phe
50 55 60

His Ser Ala Met Tyr Leu Phe Leu Gly Asn Leu Ala Ala Ser Asp Leu
65 70 75 80

Leu Ala Gly Val Ala Phe Val Ala Asn Thr Leu Leu Ser Gly Ser Val
85 90 95

Thr Leu Arg Leu Thr Pro Val Gln Trp Phe Ala Arg Glu Gly Ser Ala
100 105 110

Phe Ile Thr Leu Ser Ala Ser Val Phe Ser Leu Leu Ala Ile Ala Ile
115 120 125

Glu Arg His Val Ala Ile Ala Lys Val Lys Leu Tyr Gly Ser Asp Lys
130 135 140

Ser Cys Arg Met Leu Leu Leu Ile Gly Ala Ser Trp Leu Ile Ser Leu
145 150 155 160

Val Leu Gly Gly Leu Pro Ile Leu Gly Trp Asn Cys Leu Gly His Leu
165 170 175

Glu Ala Cys Ser Thr Val Leu Pro Leu Tyr Ala Lys His Tyr Val Leu
180 185 190

Cys Val Val Thr Ile Phe Ser Ile Ile Leu Leu Ala Ile Val Ala Leu
195 200 205

Tyr Val Arg Ile Tyr Cys Val Val Arg Ser Ser His Ala Asp Met Ala
210 215 220

Ala Pro Gln Thr Leu Ala Leu Leu Lys Thr Val Thr Ile Val Leu Gly
225 230 235 240

Val Phe Ile Val Cys Trp Leu Pro Ala Phe Ser Ile Leu Leu Leu Asp
245 250 255

Tyr Ala Cys Pro Val His Ser Cys Pro Ile Leu Tyr Lys Ala His Tyr
260 265 270

Xaa Phe Ala Val Ser Thr Leu Asn Ser Leu Leu Asn Pro Val Ile Tyr
275 280 285

Thr Trp Arg Ser Arg Asp Leu Arg Arg Glu Val Leu Arg Pro Leu Gln
290 295 300

Cys Trp Arg Pro Gly Val Gly Val Gln Gly Arg Arg Arg Gly Gly Thr
305 310 315 320

Pro Gly His His Leu Leu Pro Leu Arg Ser Ser Ser Ser Leu Glu Arg
325 330 335

Gly Met His Met Pro Thr Ser Pro Thr Phe Leu Glu Gly Asn Thr Val
340 345 350

Val

<210> 18
<211> 1170
<212> DNA
<213> Homo sapiens

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actcgcggtg caccggtaac ggttccagtt cgacataccg tcgctgttct cgacggcgta 480
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<210> 19
 <211> 1062
 <212> DNA
 <213> Homo sapiens

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 gtcactcctt gttgcgccat tgtggtggaa aaccttcttg tgctcattgc ggtggccccga 180
 aacagcaagt tccactcggc aatgtacctg tttctgggca acctggccgc ctccgatcta 240
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<210> 20
 <211> 1062
 <212> DNA
 <213> Homo sapiens

<400> 20
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 ccgtcgtgtg tctcgacggc gtacgaagac gagtagcccc ggagaccgga gtagagcgac 480
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taggacaacc ggcagcaccg ggacatgcac gcgtagatga cgcaccaggc gagttcggtg 660
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<210> 21
 <211> 352
 <212> PRT
 <213> Rattus sp.

<400> 21
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 Arg Lys Val Ala Ser Ala Phe Ile Ile Ile Leu Cys Cys Ala Ile Val
 35 40 45
 Val Glu Asn Leu Leu Val Leu Ile Ala Val Ala Arg Asn Ser Lys Phe
 50 55 60
 His Ser Ala Met Tyr Leu Phe Leu Gly Asn Leu Ala Ala Ser Asp Leu
 65 70 75 80
 Leu Ala Gly Val Ala Phe Val Ala Asn Thr Leu Leu Ser Gly Pro Val
 85 90 95
 Thr Leu Ser Leu Thr Pro Leu Gln Trp Phe Ala Arg Glu Gly Ser Ala
 100 105 110
 Phe Ile Thr Leu Ser Ala Ser Val Phe Ser Leu Leu Ala Ile Ala Ile
 115 120 125
 Glu Arg Gln Val Ala Ile Ala Lys Val Lys Leu Tyr Gly Ser Asp Lys
 130 135 140
 Ser Cys Arg Met Leu Met Leu Ile Gly Ala Ser Trp Leu Ile Ser Leu
 145 150 155 160
 Ile Leu Gly Gly Leu Pro Ile Leu Gly Trp Asn Cys Leu Asp His Leu
 165 170 175

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Glu Ala Cys Ser Thr Val Leu Pro Leu Tyr Ala Lys His Tyr Val Leu
180 185 190

Cys Val Val Thr Ile Phe Ser Val Ile Leu Leu Ala Ile Val Ala Leu
195 200 205

Tyr Val Arg Ile Tyr Phe Val Val Arg Ser Ser His Ala Asp Val Ala
210 215 220

Gly Pro Gln Thr Leu Ala Leu Leu Lys Thr Val Thr Ile Val Leu Gly
225 230 235 240

Val Phe Ile Ile Cys Trp Leu Pro Ala Phe Ser Ile Leu Leu Leu Asp
245 250 255

Ser Thr Cys Pro Val Arg Ala Cys Pro Val Leu Tyr Lys Ala His Tyr
260 265 270

Phe Phe Ala Phe Ala Thr Leu Asn Ser Leu Leu Asn Pro Val Ile Tyr
275 280 285

Thr Trp Arg Ser Arg Asp Leu Arg Arg Glu Val Leu Arg Pro Leu Leu
290 295 300

Cys Trp Arg Gln Gly Lys Gly Ala Thr Gly Arg Arg Gly Gly Asn Pro
305 310 315 320

Gly His Arg Leu Leu Pro Leu Arg Ser Ser Ser Ser Leu Glu Arg Gly
325 330 335

Leu His Met Pro Thr Ser Pro Thr Phe Leu Glu Gly Asn Thr Val Val
340 345 350

<210> 22

<211> 353

<212> PRT

<213> Homo sapiens

<400> 22

Met Gly Ser Leu Tyr Ser Glu Tyr Leu Asn Pro Asn Lys Val Gln Glu
1 5 10 15

His Tyr Asn Tyr Thr Lys Glu Thr Leu Glu Thr Gln Glu Thr Thr Ser

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25

30

Arg Gln Val Ala Ser Ala Phe Ile Val Ile Leu Cys Cys Ala Ile Val
35 40 45

Val Glu Asn Leu Leu Val Leu Ile Ala Val Ala Arg Asn Ser Lys Phe
50 55 60

His Ser Ala Met Tyr Leu Phe Leu Gly Asn Leu Ala Ala Ser Asp Leu
65 70 75 80

Leu Ala Gly Val Ala Phe Val Ala Asn Thr Leu Leu Ser Gly Ser Val
85 90 95

Thr Leu Arg Leu Thr Pro Val Gln Trp Phe Ala Arg Glu Gly Ser Ala
100 105 110

Phe Ile Thr Leu Ser Ala Ser Val Phe Ser Leu Leu Ala Ile Ala Ile
115 120 125

Glu Arg His Val Ala Ile Ala Lys Val Lys Leu Tyr Gly Ser Asp Lys
130 135 140

Ser Cys Arg Met Leu Leu Leu Ile Gly Ala Ser Trp Leu Ile Ser Leu
145 150 155 160

Val Leu Gly Gly Leu Pro Ile Leu Gly Trp Asn Cys Leu Gly His Leu
165 170 175

Glu Ala Cys Ser Thr Val Leu Pro Leu Tyr Ala Lys His Tyr Val Leu
180 185 190

Cys Val Val Thr Ile Phe Ser Ile Ile Leu Leu Ala Val Val Ala Leu
195 200 205

Tyr Val Arg Ile Tyr Cys Val Val Arg Ser Ser His Ala Asp Met Ala
210 215 220

Ala Pro Gln Thr Leu Ala Leu Leu Lys Thr Val Thr Ile Val Leu Gly
225 230 235 240

Val Phe Ile Val Cys Trp Leu Pro Ala Phe Ser Ile Leu Leu Leu Asp
245 250 255

Tyr Ala Cys Pro Val His Ser Cys Pro Ile Leu Tyr Lys Ala His Tyr
260 265 270

Leu Phe Ala Val Ser Thr Leu Asn Ser Leu Leu Asn Pro Val Ile Tyr

275

280

285

Thr Trp Arg Ser Arg Asp Leu Arg Arg Glu Val Leu Arg Pro Leu Gln
 290 295 300

Cys Trp Arg Pro Gly Val Gly Val Gln Gly Arg Arg Arg Gly Gly Thr
 305 310 315 320

Pro Gly His His Leu Leu Pro Leu Arg Ser Ser Ser Ser Leu Glu Arg
 325 330 335

Gly Met His Met Pro Thr Ser Pro Thr Phe Leu Glu Gly Asn Thr Val
 340 345 350

Val

<210> 23

<211> 351

<212> PRT

<213> Homo sapiens

<400> 23

Met Val Ile Met Gly Gln Cys Tyr Tyr Asn Glu Thr Ile Gly Phe Phe
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 20 25 30

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 35 40 45

Thr Asn Leu Leu Val Ile Ala Ala Ile Ala Ser Asn Arg Arg Phe His
 50 55 60

Gln Pro Ile Tyr Tyr Leu Leu Gly Asn Leu Ala Ala Ala Asp Leu Phe
 65 70 75 80

Ala Gly Val Ala Tyr Leu Phe Leu Met Phe His Thr Gly Pro Arg Thr
 85 90 95

Ala Arg Leu Ser Leu Glu Gly Trp Phe Leu Arg Gln Gly Leu Leu Asp
 100 105 110

Thr Ser Leu Thr Ala Ser Val Ala Thr Leu Leu Ala Ile Ala Val Glu
 115 120 125

Arg His Arg Ser Val Met Ala Val Gln Leu His Ser Arg Leu Pro Arg
 130 135 140

Gly Arg Val Val Met Leu Ile Val Gly Val Trp Val Ala Ala Leu Gly
 145 150 155 160

Leu Gly Leu Leu Pro Ala His Ser Trp His Cys Leu Cys Ala Leu Asp
 165 170 175

Arg Cys Ser Arg Met Ala Pro Leu Leu Ser Arg Ser Tyr Leu Ala Val
 180 185 190

Trp Ala Leu Ser Ser Leu Leu Val Phe Leu Leu Met Val Ala Val Tyr
 195 200 205

Thr Arg Ile Phe Phe Tyr Val Arg Arg Arg Val Gln Arg Met Ala Glu
 210 215 220

His Val Ser Cys His Pro Arg Tyr Arg Glu Thr Thr Leu Ser Leu Val
 225 230 235 240

Lys Thr Val Val Ile Ile Leu Gly Ala Phe Val Val Cys Trp Thr Pro
 245 250 255

Gly Gln Val Val Leu Leu Leu Asp Gly Leu Gly Cys Glu Ser Cys Asn
 260 265 270

Val Leu Ala Val Glu Lys Tyr Phe Leu Leu Leu Ala Glu Ala Asn Ser
 275 280 285

Leu Val Asn Ala Ala Val Tyr Ser Cys Arg Asp Ala Glu Met Arg Arg
 290 295 300

Thr Phe Arg Arg Leu Leu Cys Cys Ala Cys Leu Arg Gln Ser Thr Arg
 305 310 315 320

Glu Ser Val His Tyr Thr Ser Ser Ala Gln Gly Gly Ala Ser Thr Arg
 325 330 335

Ile Met Leu Pro Glu Asn Gly His Pro Leu Met Asp Ser Thr Leu
 340 345 350

<210> 24

<211> 1056

<212> DNA

<213> Homo sapiens

<400> 24

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